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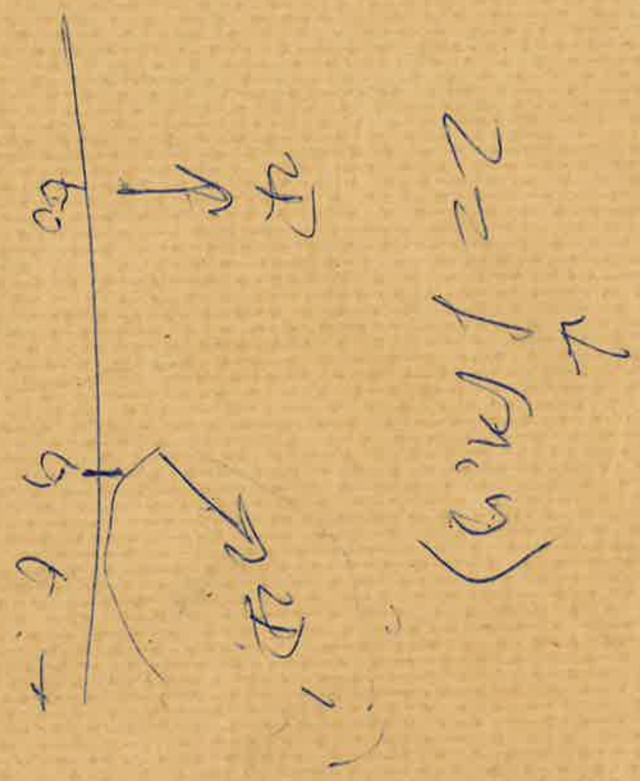
SW6 - 3TA



$x(1-y) = 1-y-2$

$x_2 = \frac{1-y}{1-y}$

$x_2 = -\frac{1}{1-y} = 0$

$x+y+3$

$= 1+xy$

$x+y+3-1-xy = 0$

$F(x,y) = 9-9=0$

$F_x = 1-x = 0$

$F_y = 1$

$N > \frac{1}{\varepsilon^2}$

$F < 4/N\varepsilon^2$

$f > 1/3$ or $N < 12/\varepsilon^2$

$\therefore \frac{4}{N\varepsilon^2} > 1/3$

$f(x) + f(\overline{x}) + f(x)$

$= \frac{x}{1+x} + \dots + (1-f(x))(1-f(x))$

$= f(x) + f(x) + 1 - f_x - f_y + f_x f_y$

$\geq 1 + f(x) f(\overline{x})$

> 1

$F.$

$3f \geq 1 + f^2$

or $f^2 - 3f + 1 \leq 0$

$f = \frac{3 \pm \sqrt{9-4}}{2}$

$= \frac{3 \pm \sqrt{5}}{2}$

$3f = \frac{9-3\sqrt{5}}{2} > 1$

$9 > 1 + 3\sqrt{5}$

$\frac{4}{N\varepsilon^2} > \frac{3+\sqrt{5}}{2}$

$N < \left(\frac{8}{3+\sqrt{5}}\right) \frac{1}{\varepsilon^2}$

$\frac{2m}{N} + \frac{4(N-m)}{N}$

$= 4 - \frac{2m}{N}$